Claim Listing

Claims 1, and 6-10 are amended as indicated below. Claims 11-14 are withdrawn with this amendment.

1. (Currently Amended) A system for processing price data corresponding to a sequence of time for a selected interval, said system comprising:

a database means for storing said price data in system addressable format, wherein said price data is organized for processing into a non-linear relationship;

a data processor responsive to price data stored in said database and capable of generating said non-linear relationship having a smooth, curvalinear curvilinear characteristic for a range of data within said interval;

a pattern recognition processor for applying said smoothed non-linear relationship to discern the existence of one or more patterns of price-time data; and generating a results output based on a recognition of said pattern, if any.

- 2. The system of claim 1 wherein real-time price data is inputted from commercial financial data vendors.
- 3. The system of claim 1 wherein said database means includes means for storing price data taken from end of day trading records.
- 4. The system of claim 1 wherein said database means includes means for storing trading volume and trade size data.
- 5. The system of claim 1 further comprising means for testing prediction characteristics, via convergence criteria and adjusting system parameters in response to said criteria.



6. (Currently Amended) A system for processing price data corresponding to a sequence of time for a selected interval, said system comprising:

a database means for storing said price data in system addressable format, wherein said price data is organized for processing into a non-linear relationship;

a data processor responsive to price data stored in said database and capable of generating said non-linear relationship having a smooth, curvilinear characteristic for a range of data within said interval;

a pattern recognition processor for applying said smoothed non-linear relationship to discern the existence of one or more patterns of price-time data and generating a results output based on a recognition of said pattern, if any; and

The system of claim 1 further comprising programming to detect one or more broadening tops and broadening bottoms.

7 (Currently Amended) The system of claim 1 further comprising programming to detect head and shoulders pattern. A system for processing price data corresponding to a sequence of time for a selected interval, said system comprising:

a database means for storing said price data in system addressable format, wherein said price data is organized for processing into a non-linear relationship;

a data processor responsive to price data stored in said database and capable of generating said non-linear relationship having a smooth, curvilinear characteristic for a range of data within said interval;

a pattern recognition processor for applying said smoothed non-linear relationship to discern the existence of one or more patterns of price-time data and generating a results output based on a recognition of said pattern, if any; and 09/828,519

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programming to detect one or more head and shoulders patterns.

8 (Currently Amended) The system of claim 1 further comprising programming to detect triangle tops and triangle bottoms. A system for processing price data corresponding to a sequence of time for a selected interval, said system comprising:

a database means for storing said price data in system addressable format, wherein said price data is organized for processing into a non-linear relationship;

a data processor responsive to price data stored in said database and capable of generating said non-linear relationship having a smooth, curvilinear characteristic for a range of data within said interval;

a pattern recognition processor for applying said smoothed non-linear relationship to discern the existence of one or more patterns of price-time data and generating a results output based on a recognition of said pattern, if any; and programming to detect one or more triangle tops and triangle bottoms.

9 (Currently Amended) The system of claim 1-further comprising programming to detect rectangle tops and rectangle bottoms. A system for processing price data corresponding to a sequence of time for a selected interval, said system comprising:

a database means for storing said price data in system addressable format,
wherein said price data is organized for processing into a non-linear relationship;

a data processor responsive to price data stored in said database and capable of generating said non-linear relationship having a smooth, curvilinear characteristic for a range of data within said interval;



a pattern recognition processor for applying said smoothed non-linear relationship to discern the existence of one or more patterns of price-time data and generating a results output based on a recognition of said pattern, if any; and programming to detect one or more rectangle tops and rectangle bottoms.

10 (Currently Amended) The system of claim 1 further comprising programming to detect double tops and double bottoms. A system for processing price data corresponding to a sequence of time for a selected interval, said system comprising:

a database means for storing said price data in system addressable format, wherein said price data is organized for processing into a non-linear relationship;

a data processor responsive to price data stored in said database and capable of generating said non-linear relationship having a smooth, curvilinear characteristic for a range of data within said interval;

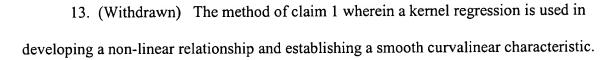
a pattern recognition processor for applying said smoothed non-linear relationship to discern the existence of one or more patterns of price-time data and generating a results output based on a recognition of said pattern, if any; and programming to detect one or more double tops and double bottoms.

- 11. (Withdrawn) A data processing method for developing predictions on future price movements based on historical price data said method comprising the steps of:
 - a) storing data relating to price at select time intervals;
- b) develop a non-linear relationship over discrete time intervals and establishing smooth, curvalinear characteristics for said price data at select intervals;
- c) apply pattern recognition techniques to said curvalinear characteristics to detect one or more patterns for said select intervals; and 1869-003A [056225-5003] 09/828,519



d) generate a results output based on a recognition of one or more patterns.

12. (Withdrawn) The method of claim 11 wherein recognized patterns are selected from the group comprising:: head and shoulders, broadening tops and bottoms, triangle tops and bottoms, rectangle tops and bottoms, and double tops and bottoms.



14. (Withdrawn) The method of claim 1 wherein said relationship is controlled by select parameters that are adjustable based on convergence criteria.

